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 NOV 0 6 2003
 PATENT & TRADE MARK

Dobisz et al.
 Thermally Stable Oxidized Bias Layer
 Structure for Magnetoresistive Magnetic
 Head for a Hard Disk Drive
 S/N: 10/615,554
 Atty. Docket #HSJ9-2003-0007US1

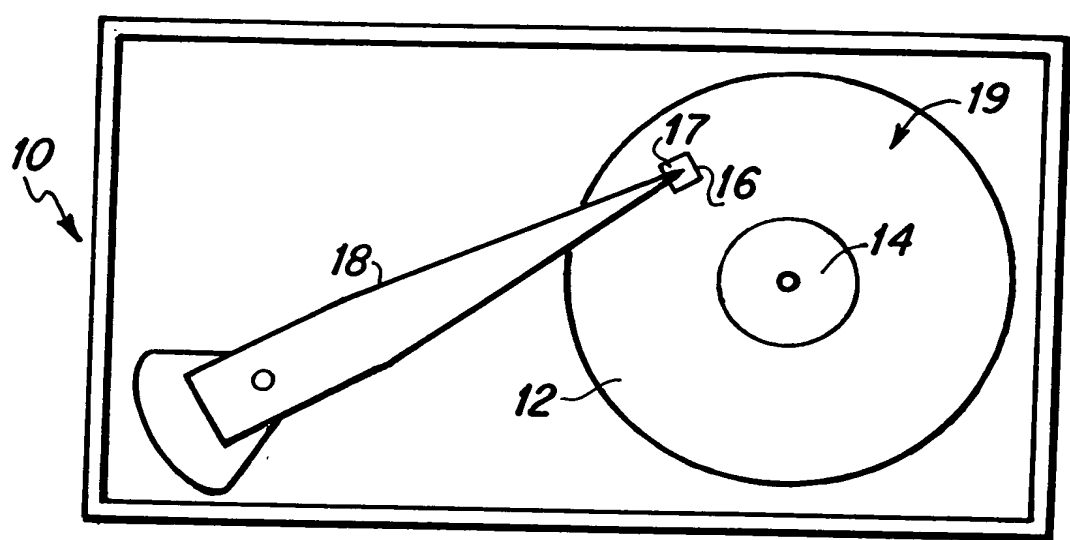


Fig.1

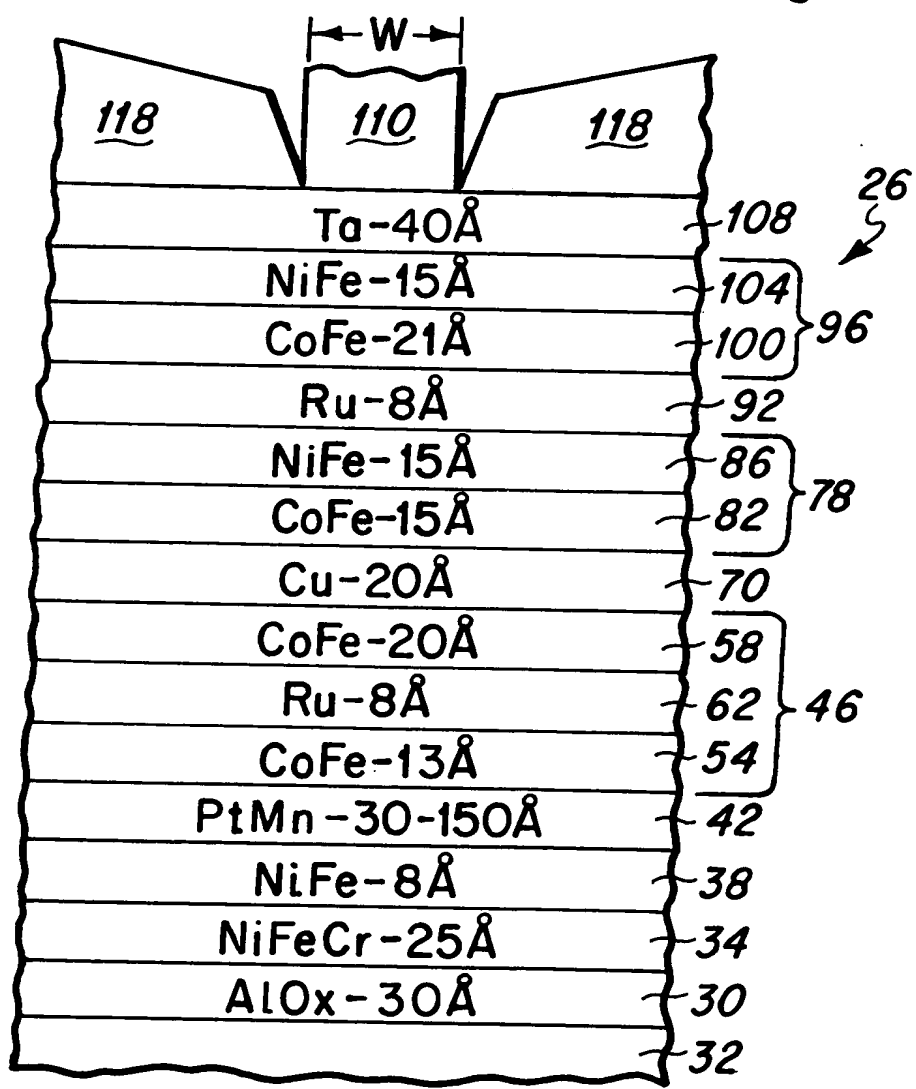


Fig.2

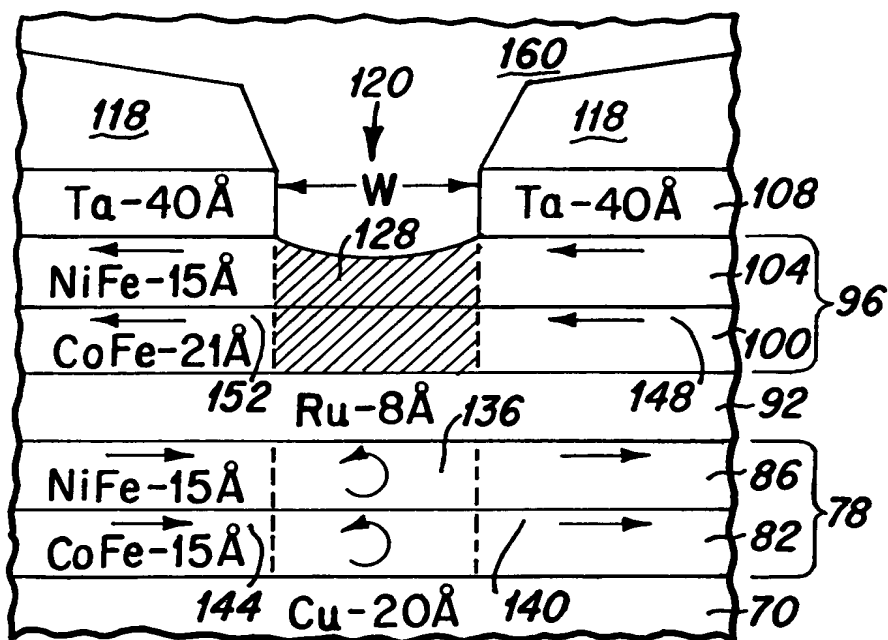


Fig. 3

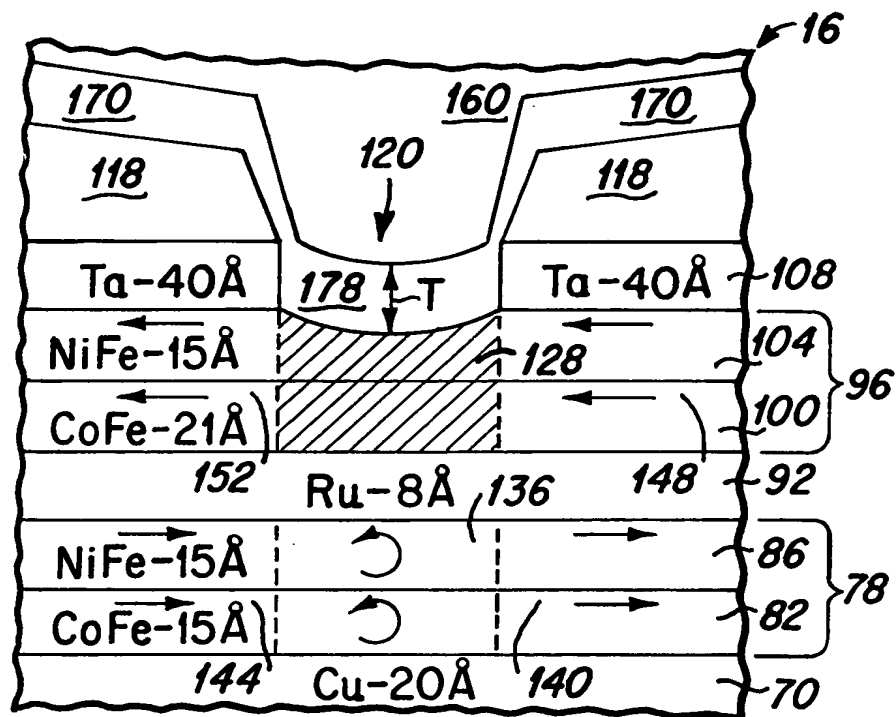


Fig. 4

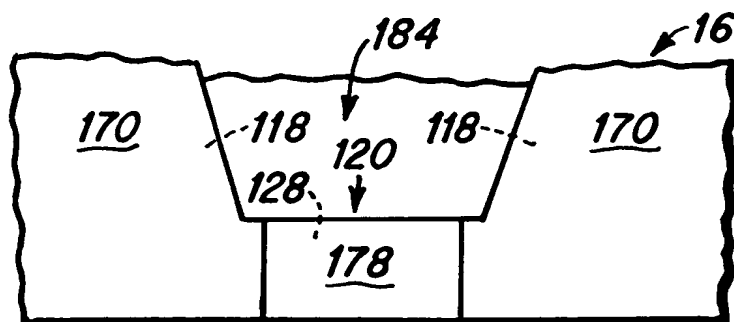


Fig. 5